

Application No. 09/813,213
Response to Office Action

Customer No. 01933

Listing of Claims:

1. (Currently Amended) An image-forming apparatus [[,]] for forming an image on a wide recording material, ~~an area of which is wider than that of a~~ corresponding standard fixed-form size recording material having a predetermined fixed-form size, based
5 on an original image recorded on a document, said apparatus comprising:

a plurality of recording material storing ~~devices~~ units, in each of which ~~said is adapted to store a type of~~ recording material ~~can be stored~~;

10 an input section ~~to establish~~ for inputting information ~~in regard to~~ regarding a size of said types of recording material ~~7 which is stored in one of~~ said recording material storing ~~devices,~~ units as setting information corresponding respectively to ~~each of~~ said recording material storing ~~devices~~ units;

15 a memory section to store said setting information corresponding to each of said recording material storing ~~devices~~ units; and

20 a control section to determine controlling conditions based on said setting information and to control operations of said image-forming apparatus based on said controlling conditions;

wherein said setting information ~~include~~ corresponding to the wide recording material includes said corresponding standard

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fixed-form size that is narrower than the wide recording
material and longitudinal and lateral lengths of said wide
25 recording material;

wherein inputting the setting information corresponding to
the wide recording material includes a first step of inputting
said corresponding standard fixed-form size into said input
section, and a second step of inputting said longitudinal and
30 lateral lengths of said wide recording material into said input
section; and

wherein, when said longitudinal and lateral lengths inputted
at said second step are shorter than longitudinal and lateral
lengths of said standard fixed-form size inputted at said first
35 step, said input section rejects the inputting operation of said
longitudinal and lateral lengths.

2. (Currently Amended) The image-forming apparatus of
claim 1, wherein said input section establishes ~~a type~~ the types
of said recording material as said setting information [[,]]
corresponding respectively to ~~each of~~ said recording material
storing ~~devices~~ units.

Claims 3 and 4 (Canceled).

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5. (Currently Amended) The image-forming apparatus of claim 1, further comprising:

a displaying section to display said setting information in a manner such that each item of said setting information clearly corresponds to ~~each~~ the corresponding one of said recording material storing ~~devices~~ units.

6. (Original) The image-forming apparatus of claim 5, wherein said displaying section displays information in regard to said standard fixed-form size and information of size larger than said standard fixed-form size.

7. (Currently Amended) An image-forming apparatus ~~[[,]]~~ for forming an image on a wide recording material, ~~an area of~~ which is wider than ~~that of~~ a corresponding standard fixed-form size recording material having a predetermined fixed-form size, based on an original image recorded on a document, said apparatus comprising:

a plurality of recording material storing ~~devices~~ units, in each of which ~~said~~ is adapted to store a type of recording material ~~can be stored~~;

an input section ~~to establish for inputting~~ information ~~in regard to~~ regarding a size of said types of recording material ~~which is~~ stored in ~~one of~~ said recording material storing

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~~devices,~~ units as setting information corresponding respectively
to ~~each of~~ said recording material storing ~~devices~~ units;

15 a memory section to store said setting information
corresponding to each of said recording material storing ~~devices~~
units; and

 a control section to determine conveyance controlling
conditions, ~~by which~~ for determining a conveyance mode of said
20 types of recording material [[,]] fed from ~~one of~~ said recording
material storing units, devices, ~~is determined,~~ based on ~~said the~~
corresponding setting information, and to control operations of
said image-forming apparatus based on said determined conveyance
controlling conditions;

25 wherein said setting information ~~include~~ corresponding to
the wide recording material includes said corresponding standard
fixed-form size that is narrower than the wide recording
material and longitudinal and lateral lengths of said wide
recording material, and said conveyance controlling conditions
30 for the wide recording material are determined based on said
longitudinal and lateral lengths of said wide recording material;

wherein inputting the setting information corresponding to
the wide recording material includes a first step of inputting
said corresponding standard fixed-form size into said input
35 section, and a second step of inputting said longitudinal and

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lateral lengths of said wide recording material into said input section; and

40 wherein, when said longitudinal and lateral lengths inputted at said second step are shorter than longitudinal and lateral lengths of said standard fixed-form size inputted at said first step, said input section rejects the inputting operation of said longitudinal and lateral lengths.

8. (Currently Amended) The image-forming apparatus of claim 7, wherein said input section establishes ~~a type~~ the types of said recording material as said setting information ~~[[,]]~~ corresponding respectively to ~~each of~~ said recording material storing devices.

9. (Currently Amended) The image-forming apparatus of claim 7, wherein said control section calculates an approximate fixed-form size ~~, which does not exceed said~~ corresponding to the wide recording material such that longitudinal and lateral
5 lengths, but is of the approximate fixed-form size are approximate to, and do not exceed, said longitudinal and lateral lengths of the wide recording material, and said control section calculates said conveyance controlling conditions for the wide recording material based on ~~other~~ conveyance controlling
10 conditions corresponding to said approximate fixed-form size.

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10. (Currently Amended) The image-forming apparatus of claim 9, wherein said ~~other~~ conveyance controlling conditions corresponding to said approximate fixed-form size are given in advance.

11. (Original) The image-forming apparatus of claim 9, wherein said approximate fixed-form size is separately determined with respect to each of longitudinal and lateral directions.

12. (Currently Amended) The image-forming apparatus of claim 9, wherein said control section compares said standard fixed-form size with a most approximate fixed-form size, ~~which does not exceed said~~ having longitudinal and lateral lengths ~~but is that are~~ most approximate to, and do not exceed, said longitudinal and lateral lengths of the wide recording material, and to determine

wherein said control section determines said standard fixed-form size as said approximate fixed-form size when said standard fixed-form size is equal to said most approximate fixed-form size, ~~or to determine and determines~~ said most approximate fixed-form size as said approximate fixed-form size when said standard fixed-form size is smaller than said most approximate fixed-form size.

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13. (Currently Amended) ~~The~~ An image-forming apparatus of
claim 9, for forming an image on a wide recording material, which
is wider than a corresponding standard fixed-form size recording
material having a predetermined fixed-form size, based on an
5 original image recorded on a document, said apparatus comprising:
a plurality of recording material storing units, each of
which is adapted to store a type of recording material;
an input section for inputting information regarding a size
of said types of recording material stored in said recording
10 material storing units as setting information corresponding
respectively to said recording material storing units;
a memory section to store said setting information
corresponding to each of said recording material storing units;
and
15 a control section to determine conveyance controlling
conditions, for determining a conveyance mode of said types of
recording material fed from said recording material storing
units, based on the corresponding setting information, and to
control operations of said image-forming apparatus based on said
20 determined conveyance controlling conditions;
wherein said setting information corresponding to the wide
recording material includes said corresponding standard
fixed-form size that is narrower than the wide recording
material and longitudinal and lateral lengths of said wide

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25 recording material, and said conveyance controlling conditions
for the wide recording material are determined based on said
longitudinal and lateral lengths of said wide recording material;
wherein said control section calculates an approximate
fixed-form size corresponding to the wide recording material such
30 that longitudinal and lateral lengths of the approximate fixed-
form size are approximate to, and do not exceed, said
longitudinal and lateral lengths of the wide recording material,
and said control section calculates said conveyance controlling
conditions for the wide recording material based on conveyance
35 controlling conditions corresponding to said approximate
fixed-form size; and

wherein said control section calculates said conveyance
controlling conditions for the wide recording material based on
difference values between the longitudinal and lateral lengths of
40 said wide recording material and the longitudinal and lateral
lengths of said approximate fixed-form size in longitudinal and
lateral directions, respectively.

14. (Currently Amended) The image-forming apparatus of
claim 13, wherein said control section calculates said conveyance
controlling conditions for the wide recording material by
compensatively adding said difference values to said ~~other~~

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conveyance controlling conditions corresponding to said approximate fixed-form size.

15. (Original) The image-forming apparatus of claim 14, wherein said control section calculates said conveyance controlling conditions in respect to a PPM interval control by utilizing said difference values in said longitudinal direction.

16. (Original) The image-forming apparatus of claim 14, wherein said control section calculates said conveyance controlling conditions in respect to an ADU circulation control by utilizing said difference values in said longitudinal direction.

17. (Original) The image-forming apparatus of claim 14, wherein said control section calculates said conveyance controlling conditions in respect to a controlling operation for detecting a positional deviation of said recording material by utilizing said difference values in said lateral direction.

18. (Withdrawn - Currently Amended) ~~Am The image-forming apparatus, for forming an image on a recording material, an area of which is wider than that of a standard fixed form size having~~

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~~a predetermined fixed form size, based on an original image~~
5 ~~recorded on a document~~ according to claim 1, further comprising:

~~a plurality of recording material storing devices, in each~~
~~of which said recording material can be stored;~~

~~an input section to establish information in regard to a~~
~~size of said recording material, which is stored in one of said~~

10 ~~recording material storing devices, as setting information~~
~~corresponding to each of said recording material storing devices;~~

~~a memory section to store said setting information~~
~~corresponding to each of said recording material storing devices;~~

~~a control section to determine controlling conditions based~~
15 ~~on said setting information and to control operations of said~~
~~image-forming apparatus based on said controlling conditions; and~~

~~an automatic magnification selecting section to~~
~~automatically determine a magnification factor [[,]] utilized for~~
~~forming said image on said~~ wide ~~recording material, from~~ based
20 on ~~a size of said~~ wide ~~recording material and a size of said~~
~~document, with respect to every size~~ each dimension ~~of said~~
~~document;~~

~~wherein said setting information include said standard~~
~~fixed form size and longitudinal and lateral lengths of said~~
25 ~~recording material, and said magnification factor is determined~~
~~based on said standard fixed-form size in respect~~ corresponding
~~to said~~ wide ~~recording material.~~

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19. (Withdrawn - Currently Amended) The image-forming apparatus of claim 18, wherein said input section establishes a ~~type~~ the types of said recording material as said setting information ~~[[,]]~~ corresponding respectively to ~~each of~~ said recording material storing devices units.

20. (Withdrawn - Currently Amended) ~~An~~ The image-forming apparatus ~~, for forming an image on a recording material, an area of which is wider than that of a standard fixed form size having a predetermined fixed form size, based on an original image~~
5 ~~recorded on a document~~ according to claim 1, further comprising:
~~a plurality of recording material storing devices, in each of which said recording material can be stored,~~
~~an input section to establish information in regard to a size of said recording material, which is stored in one of said~~
10 ~~recording material storing devices, as setting information corresponding to each of said recording material storing devices,~~
~~a memory section to store said setting information corresponding to each of said recording material storing devices,~~
~~a control section to determine controlling conditions based~~
15 ~~on said setting information and to control operations of said image-forming apparatus based on said controlling conditions, and~~

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an automatic ~~storing device~~ storing unit switching section to automatically switch from a feeding path of said recording material fed from a current recording material storing device

20 unit to another feeding path of ~~said recording material fed from another recording material storing device, which unit that stores recording materials having the same conditions as those of recording materials stored in said current recording material storing device, wherein, a same type of recording material as~~

25 said current recording material storing unit, when said current recording material storing unit is emptied during consecutive image-forming operations for said same type of recording material; materials continuously feeding from one of said recording material storing section, said automatic storing device

30 switching section automatically switches from said feeding path to said other feeding path, when said recording materials stored in said current recording material storing device have run out, and when said other recording material storing device currently stores said recording materials having said same conditions,

35 wherein ~~said setting information include said standard fixed form size and longitudinal and lateral lengths of said recording material, and said same conditions include full coincidence in~~ when said recording material is said wide recording material, it is determined that said another recording

40 material storing unit stores said same type of recording material

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based on said corresponding standard fixed-form size and
said longitudinal and lateral lengths ~~in respect to~~ of said wide
recording material.

21. (Withdrawn - Currently Amended) The image-forming
apparatus of claim 20, wherein said input section establishes a
~~type~~ the types of said recording material as said setting
information [[,]] corresponding respectively to ~~each of~~ said
recording material storing ~~devices~~ units.